NC/QC/YD/2020-21/W3-BG-C1

Date: 15-07-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	275min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.13 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.76N/Sq mm	Shall not be less than 27 N/Sqmm

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NEWZEN CONSULTANT * Bangalore *

NC/QC/YD/2020-21/W3-BG-PCC1

Date: 15-07-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.40	0 -20	30- 70
10mm	31.50	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.30	60-95	75-100	85-100	
01.18	76.10	30-70	55-90	75-100	
600.mic	43.90	15-34	35-59	60-79	
300.mic	24.75	5-20	8-30	12-40	
150.mic	6.30	0-10	0-10	0-10	

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NEWZEN CONSULTANT * Bangalore *

NC/QC/YD/2020-21/W3-BG-PCC2

Date: 20-07-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.10	0 -20	30- 70
10mm	28.70	0 -5	10- 35
4.75mm	3.90	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS.

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.40	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.20	60-95	75-100	85-100	
01.18	74.50	30-70	55-90	75-100	
600.mic	48.15	15-34	35-59	60-79	
300.mic	24.55	5-20	8-30	12-40	
150.mic	7.80	0-10	0-10	0-10	

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NEWZEN CONSULTANT * Bangalore *

NC/QC/YD/2020-21/W3-BG-S1

Date: 23-07-2020

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12mm **TMT Steel.**
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.621**	0.567	**0.892**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**558.0**	500.0	**554.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.80**	12.00	**20.60**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**648.0**	545.0	**643.0**	545.0

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EMAIL:newzen576@gmail.com

NC/QC/YD/2020-21/W3-BG-SSM1

Date: 27-07-2020

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04) }

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1375.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.42 %	Not more than 2.0 %

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NC/QC/YD/2020-21/W3-BG CB1

Date: 17-08-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-08-20	17-08-20	07	22500	380	16.89	16.81
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	385	17.11	

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NC/QC/YD/2020-21/W3-BG-CB3

Date: 24-08-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04) }
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-08-20	24-08-20	07	22500	365	16.22	16.15
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

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NC/QC/YD/2020-21/W3-BG-CB3A

Date: 14-09-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-08-20	14-09-20	28	22500	510	22.67	22.37
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

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NC/QC/YD/2020-21/W3-BG-W2

Date: 08-10-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to Burial Ground at Attur Layout and Allalsandra in ward no- 03 and 04 of Yelahanka Satellite Town Sub Division (Package -04).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. B.P. Mahesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.50	95-100
26.50	---	-
22.40	72.35	60-80
11.20	51.70	40-60
4.75	34.50	25-40
2.36	24.60	15-30
0.600	19.05	8-22
0.075	3.80	0-5

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Date: 08-10-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.84%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.53 %	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

NEWZEN CONSULTANT Bangalore

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